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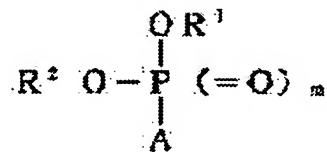
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## (54) ADDITIVE FOR LUBRICATING OIL

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain an additive which gives simultaneously an excellent scoring resistance, an excellent wear resistance and an excellent surface fatigue life resistance by carrying out a heat treatment on an acidic phosphoric ester, a phosphonic ester and a boron-containing imide dispersant at a specific temperature and for a specific time.

**SOLUTION:** An additive for a lubricating oil is prepared by carrying out a heat treatment on an acidic phosphoric ester and/or a phosphonic ester of the formula and a boron-containing imide dispersant at 120-150° C for at least 5 h. In the formula, A is hydrogen or hydroxide; (m) is 0 or 1; R<sub>1</sub> and R<sub>2</sub> are each a 1-18C hydrocarbon which can contain one or more oxygen and sulfur atoms and R<sub>1</sub> and R<sub>2</sub> are not hydrogen simultaneously. No restriction is applied for the boron-containing imide dispersant and the one selected from normally used ones can be used. For example, the one obtained by treating a bispolyalkenyl- or polyalkyl-succinimide with a boron compound or the like can be cited.



## LEGAL STATUS

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